

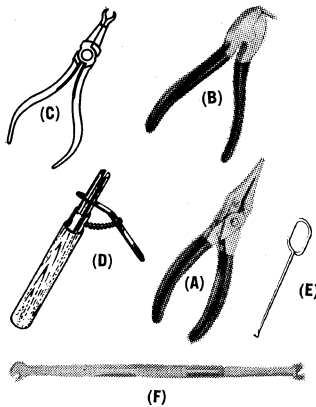
ELECTRONIC TOOLS

FOR PRODUCTION,
SERVICE
& MAINTENANCE

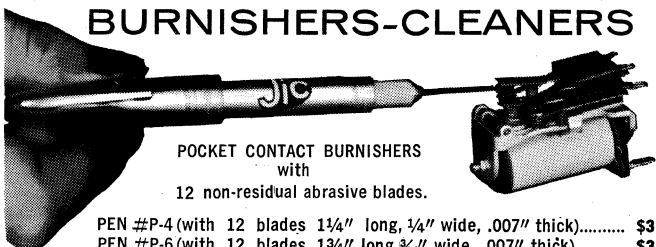
SPECIALIZED TOOLS

A carefully selected group of tools, widely used, for maintenance and service of instruments, panel boards, relays, office and telecommunication equipment.

- (A) PLS-7 Parallel Duck bill plier, 6" long **\$6.98**
- (B) PLS-44 Inserting & removing plier, 5½" long **\$6.46**
- (C) S-42 Plier, lamp cap extractor, 5" long **\$4.32**
- (D) S-339 Switchboard lamp extractor **\$1.65**
- (E) M-120 Hook spring pull, 6" **\$1.19**
- M-125 Hook spring push, 6" **\$1.19**
- Adjustment slim open end wrenches, bent 90° one end.
- (F) DW-4 8" long, ¼" opening **\$2.48**
- DW-16 8" long, ¾" opening **\$2.48**
- DW-32 8" long, ½" opening **\$2.48**



BURNISHERS-CLEANERS

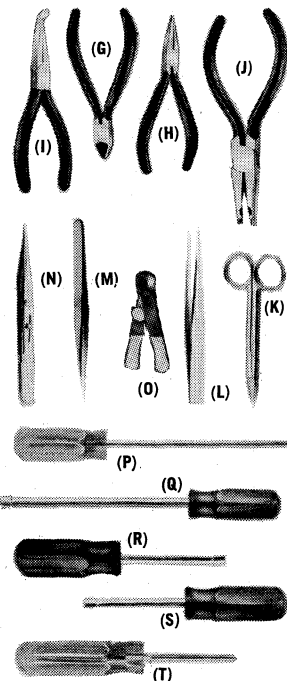


POCKET CONTACT BURNISHERS
with
12 non-residual abrasive blades.

- PEN #P-4 (with 12 blades 1¼" long, ¼" wide, .007" thick) **\$3.90**
- PEN #P-6 (with 12 blades 1¾" long, ¾" wide, .007" thick) **\$3.90**
- BLADES #RB-4 (25 replacement blades for P-4) **\$3.75**
- BLADES #RB-6 (25 replacement blades for P-6) **\$3.75**

PRODUCTION TOOLS

Precision group of high-quality hand tools widely used in production and assembly of electronic components and equipment.

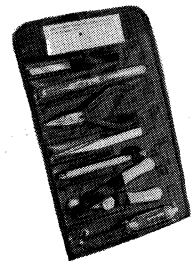


- (G) PL-3 DIAGONAL CUTTING PLIER, 4½" **\$4.15**
- (H) PL-6 CHAIN NOSE PLIER, 4½" **\$3.80**
- (I) PLS-9 PLIER, BENT NOSE DUCK BILL, 5½" **\$4.92**
- (J) PL-10 CHAIN NOSE PLIER with cutter on tip, 6" **\$4.96**
- (K) FS-66 FILAMENT CUTTING SCISSOR, 4" **\$2.98**
- (L) TW-57 TWEEZER, FINE POINTS, 4½" **\$1.65**
- (M) TW-58 TWEEZER, BRASS non-magnetic, extra fine points, 5" **\$1.98**
- (N) W-59 Slide lock tweezers, corrugated point 5½" **\$2.96**
- (O) WS-61 Wire stripper, 12 to 26 gauge **\$1.38**
- (P) M-140 Screwdriver, beryllium copper, 8½" long **\$1.38**
- (Q) M-145 Nut driver ¼", length 9" **\$1.90**
- (R) M-150 Nut driver ¾", Length 3½" **\$1.38**
- (S) M-155 Nut driver ½", Length 3½" **\$1.38**
- (T) M-160 Combination reversible phillips and standard screwdriver **\$2.48**

ELECTRONIC TOOL KITS

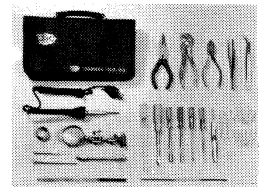
NEW COMPACT ELECTRONIC KIT

A set of most widely used precision tools for servicing all type of electronic equipment. Packaged in sturdy roll up vinyl protective case. Kit contains: chain nose plier, wire stripper, injecting oiler, fine nose tweezer, industrial burnisher, pin vise, combination screw and ¼" nut driver. KE-7 **\$9.90.**

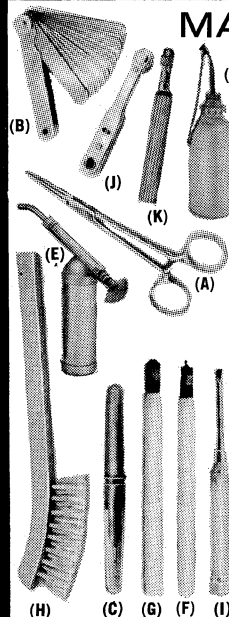


MASTER 20 PIECE SERVICE TOOL KIT

Ideal kit for service and repair of radio, TV, instruments and office equipment. Comes in protective leatherette zippered case. Kit contains: Diagonal chain nose and groove grip pliers, soldering iron with solder core, pen burnisher with 12 blades, straight and bent nose tweezers, 2 jewelers screw drivers, nut drivers ¼" and ¾", standard and phillips screwdrivers, 2 needle files, magnifier, pin vise, aligner and chisel. K-600 **\$24.75.**



MAINTENANCE AND SERVICE TOOLS



High-quality precision-designed tools for ease in maintenance and service of delicate electronic equipment.

- (A) M-100S Retriever clamp, straight type, 5½" long **\$4.74**
- M-100C Retriever clamp, curved type, 5½" long **\$4.88**
- (B) T-720N Straight thickness gauge, 26 blades Length 3" .0015-.025" **\$3.90**
- (C) OS-84 Precision injecting oiler, 6" long **\$1.89**
- (D) S-393 Plastic 4 oz. Industrial oiler **\$3.90**
- (E) S-395 Spring loaded pressure type oiler 4 oz. **\$4.90**
- (F) S-81 Standard screw starter, nylon handle **\$2.40**
- (G) S-82 Phillips screw starter, nylon handle **\$2.50**
- (H) WB-70 Stainless steel wire brush 9" long wire .005" filament **\$1.85**
- (I) M-50 Reversible nylon shaft screwdriver **\$1.68**
- (J) M-130 Ratchet offset screwdriver **\$1.29**
- (K) M-135 Pin vise **\$1.18**

KONTACT 60 AEROSOL CONTACT CLEANER

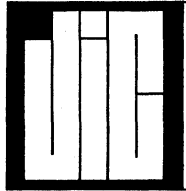
For contacts, switches, controls, tuners, all Electronic Equipment. Leaves anti-corrosion film and long-lasting lubricant.

K-60 6 oz. can with needle injector..... **\$1.98**



WRITE FOR COMPLETE CATALOG OF J.I.C. PRECISION TOOLS

JONARD INDUSTRIES CORP., PRECISION TOOLS DIV.

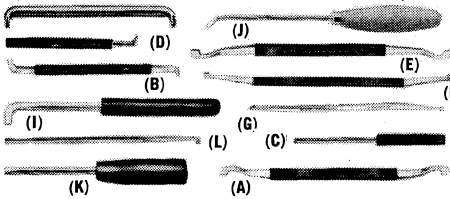


PRECISION TOOLS

FOR RELAY,
COMMUNICATION
& INSTRUMENTS

RELAY SPRING ADJUSTING TOOLS

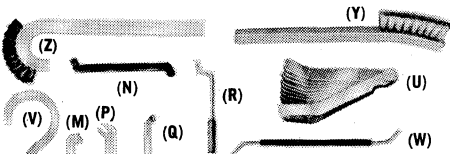
(H) All tools made of high carbon steel, plated and polished, heat treated and tempered to exact requirements. Insulated handles for work on live equipment.



(A) SA-2	Offset type, 6 1/2" long, saw slot both ends .032"	\$2.48
(B) SA-6A	Cross & lengthwise slots, 5 1/2" long, Slot .030"	\$2.45
(C) SA-7	One end saw slot straight 4 1/2" long, Slot .015	\$1.35
(D) SA-8	Heavy duty. Round head, 4 1/2" long, Cross slot .045"	\$2.48
(E) SA-16	Offset type, 6 1/2" long, saw slot both ends .018"	\$2.40
(F) SA-17	Offset slim type. Saw slot both ends .023" 8" long	\$2.95

(G) SA-20	Opposite-faced thin headed slots. 7" long Slots .022"	\$3.50
(H) SA-24	Crosswise slots. 5 1/2" long, Slots .040 & .028"	\$2.88
(I) SA-25	Angled. 6 1/2" long. Saw slot .032"	\$2.48
(J) SA-143	Bent, 8" long, Saw slot .025"	\$2.28
(K) SA-163	Straight driver type, 5 1/2" long, cross slot .038"	\$2.19
(L) SA-175	Closely set saw slot, 5 1/4" long, slot .031"	\$2.92

RELAY & INSTRUMENT TOOLS



(M) AB-21	Adjuster, Armature, 4" long, slot width each end .110"	\$1.30
(N) AB-20	Adjuster, Armature, 3 slots .114"	\$1.40
(O) SB-22	Adjuster, Armature stop, 5" long, slots .032"	\$1.48
(P) S-187	Adjuster, double dog, 4" long, slot both ends. 3/32"	\$1.64
(Q) S-201	Adjuster, aid spring, 4 1/4" long, slot both ends .034"	\$2.49
(R) J-34	Adjuster, pole piece, 3" long	\$1.68
(S) FW-24	Hex wrench, double end, with screw driver, 4 3/4" long, 3/32" and 1/4" hexagon	\$2.70

(T) J-23	Screwdriver, guide pin 4 1/2" long	\$3.60
(U) T-255	Angled thickness gauge, 9 blades .009" to .026"	\$2.24
(V) BC-23	Bank cleaner, abrasive surface 1 1/2" dia. 6" long	\$2.49
(W) S-457	Wire & spring aid, bent 30° opposite ends, 5 1/2" long	\$1.38
(X) PL-8	Spring duck bill plier, 5 1/2" long	\$4.40
(Y) WB-65	Nickel silver wire brush, 9" long	\$1.95
(Z) HB-75	Curved hair brush. Radius 1 3/4", Length 8"	\$2.35

SPRING TENSION GAUGES (YY)

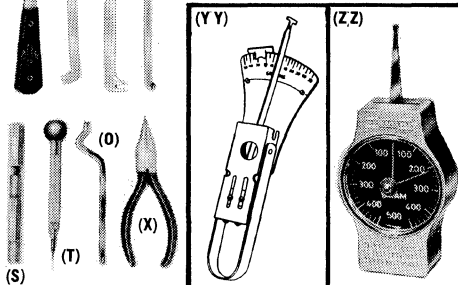
Precision-made to accurately determine the setting, testing and adjusting of relay spring tension and other delicate electronic tensioned movable components.

G-10	0-10 grams	\$6.48
G-30	0-30 grams	\$6.48
G-50	0-50 grams	\$6.48
GP-50	0-50 grams (preset)	\$7.48
G-150	0-150 grams	\$6.48
G-700	0-700 grams	\$7.96

DYNAMOMETERS (ZZ)

Dial gauges to determine force required to actuate delicate mechanisms.

• Spring tension indicator	GD-5	5-50 grams	\$13.55
• Stylus pressure gauge	GD-15	15-150 grams	\$13.55
• Verification of contact blades	GD-100	100-1000 grams	\$31.25



RELAY TOOL KITS

MASTER 15-PIECE RELAY TOOL KIT

Precision-made and professionally-designed group of new tools for adjusting and maintaining relays, contactors, switches, controls, and other components for the telecommunication and electronic industries.

Kit contains: 2 spring adjusters, tension & thickness gauges, Duck Bill plier, Screw Driver, Tweezer, Mirror, 4-way Tool, Brush, Armature & Stop Benders, Contact Spray, Contact Burnisher.

KIT K-55 \$34.00

NEW

Precision-made tools for setting, adjusting and testing most type relays. All tools highly polished and made of finest quality steel for most accurate and delicate work. Packaged in fine protective zippered case.

Kit contains: Spring adjuster, Armature bender, Arm bender, Relay spring Duck Bill Plier, Burnisher, Tension gauge 0-50 gram. KIT KIR-6 \$19.90

COMPACT RELAY ADJUSTING KIT



RELAY & CONTACT BURNISHER-CLEANERS

DIAMOND BURNISHERS

Exclusive Features:

- Strong abrasive power
- Long lasting

Consists of abrasive Diamond particles - Developed for any type contacts: Silver, Platinum, Gold, Palladium, Tungsten, Molybdenum - Length 5 5/8" - Diamond coated face 1" x 1/4" - Nylon Shaft - Three types to meet every application: Type 200 (coarse) for Industrial Relays - Type 300 (medium) for Intermediate and Telephone relays - Type 400 (fine) for Sensitive Relays.

K-234 Set of 3	\$14.85
Individual spatulas and Kits packaged in rigid plastic boxes.	
D-200 Shaft green	\$4.95
D-300 Shaft red	\$4.95
D-400 Shaft blue	\$4.95

POCKET-TYPE BURNISHERS



Used for cleaning general type relay contacts. Economical - supplied with 6 non-residual abrasive replaceable blades stored in pen barrel. Pen made of sturdy plastic for dielectric work. Length 4 1/2" Dia. 3/8" Blades 3/16" wide 1 3/4" long .007" and .0035" thick.

PEN #PB-7 (with 6 blades .007" thick)	\$3.48
PEN #PB-3 (with 6 blades .0035" thick)	\$3.78
BLADES #B-7 (25 replacement blades for PB-7)	\$3.55
BLADES #B-3 (25 replacement blades for PB-3)	\$3.65

ECONOMY BURNISHERS



For Industrial and general type contacts. Flexible, Non-residual. Leave no grit or dust and will not affect contact points. Plastic insulated handles for working on live contacts. Packaged in vinyl pouches for full protection.

(Standard Packages 48 pcs.)	
OB-1 (for fine contacts. Abrasive coated 3 1/2" long, 3/8" wide, .007" thick)	\$23 ea.
(Standard Packages 48 Pieces)	
OB-2 (for extra sensitive points. Non-abrasive, nickel plated) 3 1/2" long, 1/4" wide, .010" thick	\$42 ea.
(Standard Packages 24 Pieces)	
OB-3 (for general purpose contacts. Abrasive-cadmium plated. Hard molded handle. 3 1/2" long, 1/4" wide, .010" thick)	\$65 ea.
OB-4 (for industrial use. Abrasive - cadmium plated. Hard molded handle. 3 1/2" long, 1/4" wide, .020" thick)	\$78 ea.

WRITE FOR COMPLETE CATALOG OF J.I.C. PRECISION TOOLS

JONARD INDUSTRIES CORP., PRECISION TOOLS DIV.